Certificate of Analysis

Reference Material & Standard

Product Name:	D(-)-Arginine	**Catalogue Number:**	CCHM700661
Synonyms:	N/A	**Lot Number:**	0104-RE-0046
CAS Number:	157-06-2	**Expiry Date:**	Jan 11, 2027
Molecular Formula:	C6H14N4O2	**Storage:**	Room Temp Protected from light and Sealed
Molecular Weight:	174.20	**Warning:**	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Powder
Identification	LCMS&HNMR	Confirmed
Purity	ELSD	100.000%
Loss On Drying	TGA	0.7942%
Assay		99.2%
Uncertainty		±2.0%

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Comment:

1. The calculation of the 100% method follows the formula (calculated on the non-dried basis):
*Assay (%) = (100%-Loss On Drying) * Purity ELSD (%) /100%*
Loss On Drying is considered as absolute effect, ELSD purity is considered as relative effect.
2. The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

Prepared by: Debra Date: Jan 12, 2023

Reviewed by: Lisa Date: Jan 12, 2023

Aporoved by General Manager: David Date: Jan 12, 2023

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